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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,137	11/15/2001	Yun Lin	2960	6004

7590   03/04/2004

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EXAMINER
ALI, MOHAMMAD

ART UNIT	PAPER NUMBER
2177	

DATE MAILED: 03/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/003,137	LIN ET AL.
		Examiner	Art Unit
		Mohammad Ali	2177

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *15 November 2001*.
2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-17* is/are pending in the application.
    4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) *1-17* is/are rejected.
7)☒ Claim(s) *9* is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.
10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.
    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a)☐ All   b)☐ Some * c)☐ None of:
      1.☐ Certified copies of the priority documents have been received.
      2.☐ Certified copies of the priority documents have been received in Application No. _____.
      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3</u>.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____ .

U.S. Patent and Trademark Office

DETAILED ACTION

1. The application has been examined. Claims 1-17 are pending in this Office

Action.

Information Disclosure Statement

2. The references cited in the IDS, PTO-1449, Paper No. 3, have been considered.

Claim Objections

3. Claim 9 is objected to because of the following informalities: it should be written

as a Independent form. Appropriate correction is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-17 are rejected under 35 U.S.C. 102(b) as being anticipated by James

J. Wolff ('Wolff' hereinafter), US Patent 6,044,367.

With respect to claim 1,

Wolff discloses in a computer network (see Fig. 1B), a method comprising:

at a client-side redirector, receiving a write or read request directed to a file on a

remote network server (see col. 18, lines 52 to col. 19, lines 5, Figs. 4C, 1A-C), the write

or read request directed to communicating an amount of file data that exceeds a

maximum buffer size allowed for communicating file data in a request to the remote

server (see col. 48, lines 5-19, Fig. 10G);

logically separating the write or read request into a plurality of file section

requests that each do not exceed the maximum buffer size (see col. 54, lines 45-54 et

seq);

sending each of the file section requests to the remote network server, at least

one file section request being sent without awaiting a status response resulting from a

previously sent file section request (see col. 65, lines 66 to col. 66, lines 6 et seq);

tracking status information for the file section requests (see col. 66, lines 14-17 et

seq); and

if the status information from the file section requests indicates success,

returning a success indication in response to the write or read request (see col. 31,

lines 23-30, Fig. 10D et seq).

As to claim 2,

Wolff teaches receiving the maximum buffer size from the remote server (see col.

48, lines 5-19, Fig. 10G).

As to claim 3,

Wolff teaches wherein tracking the status information comprises, receiving a

response corresponding to one of the file section requests, evaluating the response,

and when the response indicates success, accounting for the successful response (see

col. 16, lines 61-67, Fig. 3B).

As to claim 4,

Wolff teaches allocating an array of entries for the plurality of file section

requests, wherein each file section request corresponds to an entry in the array, and

wherein accounting for the successful response includes, determining entry in the array

corresponding to the successful response, and adjusting the entry to indicate success

(see col. 50, lines 65-67, Fig. 11A).

As to claim 5,

Wolff teaches wherein determining an entry in the array corresponding to the

successful response comprises, associating a value with each file section request that

differentiates that file section request from other file section requests, and determining

the value by evaluating the successful response (see col. 39, lines 65-67 et seq).

As to claim 6,

Wolff teaches wherein the array comprises a bitmap, and wherein adjusting the

entry to indicate success comprises clearing at least one bit to zero, such that the status

information from the file section requests indicates success when the entire bitmap

equals zero (see col. 2, lines 48-58, Fig. 12B et seq).

As to claim 7,

Wolff teaches calculating a size for the array based on the amount of file data

(see col. 50, lines 65-67, Fig. 11A).

As to claim 8,

Wolff teaches determining that the write or read request exceeds the maximum

buffer size allowed (see col. 48, lines 5-19, Fig. 10G).

As to claim 9,

Wolff teaches computer-readable medium having computer executable instructions for performing the method of claim 1 (see Figs. 4A-4C et seq).

With respect to claim 10,

Wolff discloses in a computer network having a file server (Fig. 1A), a client-side system, comprising:

an application program that issues an I/O request corresponding to a file on a file server, the I/O request corresponding to an amount of file data that exceeds an allowed amount that can be exchanged vith the file server in a single request (see col. 48, lines 5-19 and col. 2, lines 48-58, Fig. 10G); and

a network redirector having an a5sociated pipeline I/O mechanism (see col. 2, lines 42-45 et seq), configured to:

1) receive information corresponding to the I/O request (see col. 2, lines 53-54 et seq);

2) send a plurality of sectioned I/O requests to the network server to satisfy the I/O request- received at the application (see col. 2, lines 53-58 et seq), at least one of the requests section without awaiting status information from the server for a previously sent request (see col. 2, lines 49-60), and each sectioned I/0 request corresponding to file data that does not exceed the allowed amount (see col. 2, lines 36-41 et seq);

3) track status information for each of the sectioned I/O requests (see col. 66, lines 14-17 et seq); and

4) determine a status to return to the application program based on the tracked

status information (see col. 31, lines 23-30, Fig. 10D et seq).

As to claim 11,

Wolff teaches wherein the status to return to the application corresponds to an

error if the status information of any one of the sanctioned I/O requests indicates an

error (see col. 2, lines 48-58 et seq).

As to claim 12,

Wolff teaches wherein the status to return to the application corresponds to a

success if the status information of every one of the sanctioned I/O requests indicates a

success (see col. 31, lines 23-30, Fig. 10D et seq).

As to claim 13,

Wolff teaches wherein the network redirector tracks the status information entry

updating an entry corresponding to a sectioned I/O request in an array when the status

information for the sectioned I/O request is known (see col. 50, lines 65-67, Fig. 11A).

As to claim 14,

Wolff teaches wherein the array comprises a bitmap (Fig. 11B and col. 2, lines

48-58 et seq).

As to claim 15,

Wolff teaches wherein the redirector and file server communicate via protocol

comprising SMB (see Figs. 1C, 2C).

As to claim 16,

Wolff teaches wherein the redirector and file server communicate via protocol comprising CTFS (see Figs. 1B, 2C).

With respect to claim 17,

Wolff discloses in a computer network (See Fig. 1B), a method comprising:

at a client-side redirector, receiving a write request to write file data to a file on a network server (see col. 18, lines 52 to col. 19, lines 5, Figs. 4C, 1A-C), the write request indicating an amount of data to he written that exceeds a maximum size allowed per request by the remote server (see col. 48, lines 5-19, Fig. 10G);

logically separating the write request into a plurality of partial write requests that each do exceed the maximum buffer size (see col. 54, lines 45-54 et seq;

allocating a data structure containing an entry for each file section request (see col. 22, lines 4-17, Fig. 5C);

sending each of the file section requests to the remote network server, at least one request being sent without awaiting a status response that results from, a previously sent request (see col. 65, lines 66 to col. 66, lines 6 et seq);

evaluating responses from the file system (see col. 16, lines 61-67, Fig. 3B), and for each successful response that corresponds to a partial write request, updating the array at a location therein that corresponds to that file section request (see col. 16, lines 61-67, Fig. 3B); and

returning a success indication when the array indicates that each of the partial write requests was successful (see col. 50, lines 65-67, Fig. 11A).

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad Ali whose telephone number is (703) 605-4356. The examiner can normally be reached on Monday to Thursday from 7:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (703) 305-9790 or Customer Service (703) 306-5631. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 for any communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9600.

Mohammad Ali

Patent Examiner

AU 2177

MA

March 03, 2004